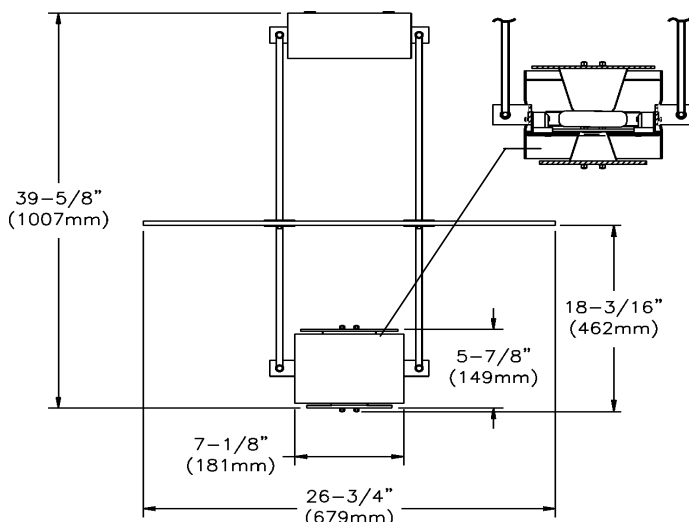


**Zylinder Glas
Optic Forms
1-150W T7 Ceramic Metal Halide**

**Spectral
Architectural Lighting**

SL402A



Ordering Guide (complete unit only)

Cat. No.	Lamp (clear)	Volts	Finish
SL402AH1	1-150W T7 CMH (M142) Double Ended	120V (electronic)	Stainless Steel & Etched Glass
SL402AH2	1-150W T7 CMH (M142) Double Ended	277V (electronic)	Stainless Steel & Etched Glass
SL402AH5	1-150W T7 CMH (M142) Double Ended	120/277/347V (mag)	Stainless Steel & Etched Glass

Features

Optical System : Single lamp powers an upper wide spaced indirect optic and a lower narrow spaced direct sand-blasted optic. Glass shield redirects light into the space. Upper wide spaced spun Alzak optic with clear glass micro switch protected. Narrow spacing spun Alzak downlight optic. Bottom glass sandblasted outer ring with clear centre.

Stainless Steel Construction : Quality all stainless steel form and hardware.

Hardware : Exposed hardware adds high design element to the form.

Ballast : New low wattage CWA magnetic or electronic ballast assure long lamp life and stable operation of the ceramic metal halide lamp source.

Ballast Compartment : Stainless steel construction with removeable ballast cover. Hollow rods shield wiring to optical chamber.

Optical Chamber : Circular brushed stainless steel construction and all stainless steel hardware, with clear Borosilicate glass at top and sand blasted Borosilicate glass at bottom.

Ceramic Lamp Source : CMH lamp source assures stable color over the life of the lamp and longer lamp life.

Large Glass : Sand blasted glass suspended between the two chambers. Hollow threaded rods joined together to hold the glass in position.

Dome Reflector : For a better direct distribution pattern, the Dome Reflector can be installed onto the Large Glass. See the appropriate photometry on reverse side of sheet.

Electrical

Lampholder : RX7s, double ended base.

Electronic Ballast : Electronic ballast maintains constant lamp characteristics throughout the life of the lamp and through a wide range of operating voltages. Ballasts available for 120 volts and 277 volts operation. No universal ballast option.

Microswitch : Remote, turn off electricity during maintenance into the lamp compartment.

H1 : Electronic MH / CMH 120V

H2 : Electronic MH / CMH 277V

Magnetic Ballast : CWA (Constant Wattage Autotransformer) with triple tap 120/277/347 volts operation. Ballast maintains steady lamp operating characteristics for longer lamp life and color stability.

H5 : Magnetic CWA MH 120/277/347V

Options and Accessories

For wall unit, see Zylinder Wall SL403.

Fuse : 2 Amps internal fusing. Consult your Lightolier representative. Add code (-F1) for 120 volts, (-F2) for 277 volts or (-F3) for 347 volts.

Finish

Stainless steel : Brushed high quality stainless steel alloy.

Labels

UL "c/us" Listed. For dry locations only.

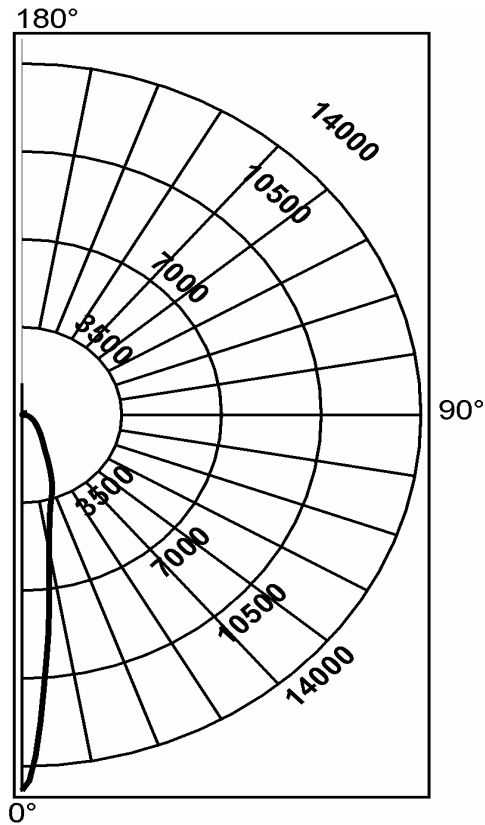
Mounting

Mounting : Suitable for mounting on standard octagonal box. Must be held in place by additional hardware to support heavy weight luminaire.

Luminaire Weight : 39 lbs (magnetic), 36.5 lbs (electronic).

Spacing Ratio = 0.3

CANDLEPOWER



ZONE DEG	0	5,0	15,0	25,0	35,0	45,0	55,0	65,0	75,0	85,0	90,0
0	14958	14958	14958	14958	14958	14958	14958	14958	14958	14958	14958
5	10432	10404	10296	10079	9789	9568	9414	9314	9227	9442	9211
10	5562	5526	5477	5443	5408	5389	5381	5380	5390	5403	5404
15	3849	3818	3758	3781	3821	3871	3920	3959	3984	3996	3995
20	3124	3126	3058	3031	3094	3165	3238	3291	3330	3350	3346
25	2327	2352	2294	2272	2261	2307	2345	2379	2402	2413	2411
30	1579	1585	1576	1584	1586	1610	1641	1675	1697	1715	1718
35	1183	1187	1173	1218	1247	1272	1314	1351	1383	1402	1401
40	942	950	938	932	1001	1026	1065	1096	1117	1129	1128
45	769	778	770	789	828	851	875	905	920	931	931
50	632	640	640	652	679	704	720	744	760	769	766
55	530	536	535	547	569	585	601	613	626	630	635
60	454	459	460	469	478	495	503	514	522	528	528
65	385	387	393	398	406	417	422	433	437	440	443
70	324	325	326	327	336	344	349	356	360	361	359
75	259	260	260	265	268	274	279	283	284	289	291
80	192	192	196	197	200	204	207	211	213	214	216
85	121	122	123	125	125	131	131	137	138	139	139
90	45	49	48	47	51	51	53	57	54	56	52

COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD • EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

ROOM CAVITY RATIO	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	54	54	54	54	52	52	52	52	50	50	50	47	47	47	45	45	45	44	44	44	44
1	50	48	47	45	49	47	46	44	45	44	46	46	42	41	41	40	39	38	38	38	38
2	47	43	41	39	45	42	40	38	41	39	37	39	37	36	37	36	35	34	34	34	34
3	43	40	37	34	42	39	36	34	37	35	33	36	34	32	34	33	31	31	31	31	31
4	41	36	33	31	40	36	33	30	34	32	30	33	31	29	32	30	29	28	28	28	28
5	38	34	30	28	37	33	30	28	32	29	27	31	29	27	30	28	26	25	25	25	25
6	36	31	28	26	35	31	28	25	30	27	25	29	27	25	28	26	24	24	24	24	24
7	34	29	26	24	33	29	26	24	28	25	23	27	25	23	27	24	23	22	22	22	22
8	32	27	24	22	32	27	24	22	26	24	22	26	23	22	25	23	21	21	21	21	21
9	31	26	23	21	30	26	23	21	25	22	20	24	22	20	24	22	20	19	19	19	19
10	29	24	22	20	29	24	21	19	24	21	19	23	21	19	23	21	19	18	18	18	18

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRES INPUTS WATTS = 125.8

REPORT NO: S0202251

CAT. NO: SL402AH1

1 x 150W CMH T7 at 13,500 lumens

Efficiency: 46%. Indirect Maximum candela

Indirect Peak at 180°. Candela at Nadir: 1

Distribution: Direct

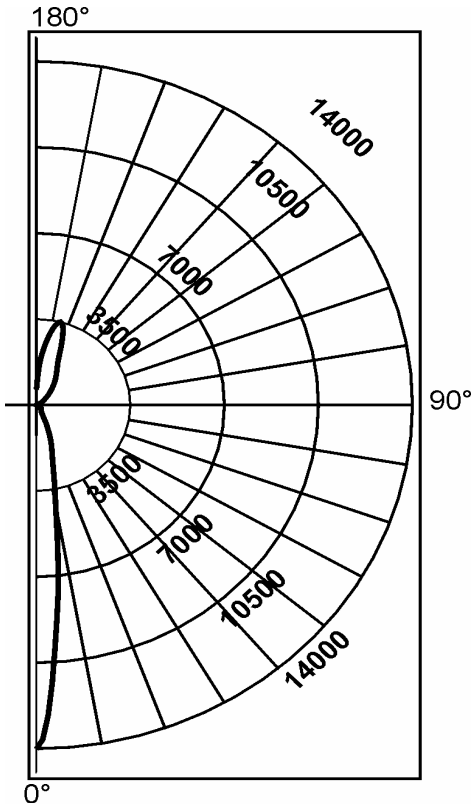
LUMINANCE SUMMARY

Angle	0 Plane	90 Plane
45	12785	15479
55	10863	13015
65	10710	12323
75	11765	13218
85	16322	18750

DISTRIBUTION

Zone	Lumens	% Lamp	% Luminaire
0-30	3096	22,9	50,3
30-60	1984	14,7	32,2
60-90	843	6,2	13,7
0-90	5923	43,9	96,2
90-180	237	1,8	3,8
0-180	6160	45,6	100,0

Spacing Ratio = 0.3



DISTRIBUTION

Zone	Lumens	% Lamp	% Luminaire	LUMINANCE SUMMARY		
				Angle	0 Plane	90 Plane
0-60	2496	18,5	35,4	45	4073	3924
60-120	641	4,7	9,1	55	4017	4407
120-180	3918	29,0	55,5	65	4757	5258
0-90	2887	21,4	40,9	75	5814	6178
90-180	4168	30,9	59,1	85	8498	9173
0-180	7055	52,3	100,0			

COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD • EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

ROOM CAVITY RATIO	80				70				50				30				10				0			
	Wall				Reflectance																			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
0	.55	.55	.55	.55	.50	.50	.50	.50	.41	.41	.41	.33	.33	.33	.25	.25	.25	.21	.21	.21	.19			
1	.51	.49	.47	.45	.46	.44	.43	.42	.37	.36	.35	.29	.29	.28	.23	.22	.22	.19	.18	.17	.15			
2	.47	.43	.41	.38	.43	.40	.37	.35	.33	.31	.30	.27	.26	.25	.21	.21	.20	.17	.16	.15	.13			
3	.43	.39	.36	.33	.40	.36	.33	.31	.30	.28	.27	.25	.24	.22	.20	.19	.18	.16	.15	.14	.12			
4	.40	.36	.32	.29	.37	.33	.30	.27	.28	.26	.24	.23	.22	.20	.19	.18	.17	.15	.14	.13	.11			
5	.38	.33	.29	.26	.35	.30	.27	.25	.26	.23	.22	.22	.20	.19	.18	.17	.16	.14	.13	.12	.10			
6	.35	.30	.26	.24	.33	.28	.25	.23	.24	.22	.20	.20	.19	.17	.17	.16	.15	.13	.12	.11	.09			
7	.33	.28	.24	.22	.31	.26	.23	.21	.22	.20	.18	.19	.18	.16	.16	.15	.14	.12	.11	.10	.08			
8	.31	.26	.22	.20	.29	.24	.21	.19	.21	.19	.17	.18	.17	.15	.15	.14	.13	.11	.10	.09	.07			
9	.30	.24	.21	.19	.28	.23	.20	.18	.20	.18	.16	.17	.16	.15	.15	.14	.13	.11	.10	.09	.06			
10	.28	.23	.20	.18	.26	.22	.19	.17	.19	.17	.15	.17	.15	.14	.14	.13	.12	.10	.09	.08	.05			

DETERMINED IN ACCORDANCE WITH CURRENT IES PUBLISHED PROCEDURES
LUMINAIRES INPUTS WATTS = 125.8

REPORT NO: S0202252
CAT. NO: SL402AH1

1 x 150W CMH T7 at 13,500 lumens

Efficiency: 52.3%. Indirect Maximum candela:

Indirect Peak at 180°. Candela at Nadir: 1401:

Distribution: Direct/Indirect

CANDLEPOWER

ZONE → DEG ↓	0	5,0	15,0	25,0	35,0	45,0	55,0	65,0	75,0	85,0	90,0	95,0	105,0	115,0	125,0	135,0	145,0	155,0	165,0	175,0	180,0
0	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013	14013
5	9409	9381	9273	9052	8776	8556	8386	8375	8185	8150	8089	8150	8185	8275	8386	8556	8776	9052	9273	9381	9409
10	4304	4279	4227	4191	4138	4104	4078	4071	4068	4074	4058	4074	4068	4071	4078	4104	4138	4191	4227	4279	4304
15	2453	2422	2349	2328	2343	2357	2379	2392	2395	2398	2393	2398	2395	2392	2379	2357	2343	2328	2349	2422	2453
20	1748	1751	1636	1571	1588	1621	1652	1669	1689	1691	1692	1691	1689	1669	1652	1621	1588	1571	1636	1751	1748
25	1097	1134	1040	970	921	915	908	904	896	884	880	884	896	904	908	915	921	970	1040	1434	1097
30	555	566	531	498	452	425	412	407	399	399	400	399	399	407	412	425	452	498	531	566	555
35	355	366	332	336	326	305	304	306	308	310	312	310	308	306	304	305	326	336	332	366	355
40	284	296	265	263	269	253	253	253	254	254	255	254	254	253	253	253	269	263	265	296	284
45	245	255	237	233	243	235	235	235	237	237	236	237	237	235	235	235	243	233	237	255	245
50	210	218	209	207	219	218	219	219	224	224	223	224	224	219	219	218	207	209	219	218	210
55	196	202	195	197	201	205	207	209	212	212	215	212	212	209	207	205	197	195	202	196	
60	184	189	188	186	192	195	196	197	203	201	201	201	203	197	196	195	192	186	188	189	184
65	171	174	173	172	174	182	181	184	187	188	189	188	187	184	181	182	174	172	173	174	171
70	151	154	154	156	155	161	159	164	169	167	167	167	169	164	159	161	155	156	154	154	151
75	128	129	127	127	128	133	132	136	139	139	136	139	139	136	132	133	128	127	127	129	128
80	100	98	100	96	99	105	103	104	105	105	109	105	105	104	103	105	99	96	100	98	100
85	63	63	65	64	64	67	67	70	72	69	68	69	72	70	67	67	64	64	65	63	63
90	27	30	30	29	28	29	27	35	31	31	29	31	31	35	27	29	28	29	30	30	27
95	15	21	22	12	16	18	15	15	16	16	16	16	16	15	15	18	16	12	22	21	15
105	71	176	65	64	63	68	67	72	74	74	71	74	74	72	67	68	63	64	65	176	71
115	147	146	142	143	149	162	169	177	186	184	188	184	186	177	169	162	149	143	142	146	147
125	263	271	287	303	332	365	391	412	433	439	436	439	433	412	391	365	332	303	287	271	263
135	468	465	512	590	690	804	895	956	998	1017	1020	1017	998	956	895	804	690	590	512	465	468
145	884	888	956	1073	1211	1361	1495	1611	1691	1727	1732	1727	1691	1611	1495	1361	1211	1073	956	888	884
155	1357	1367	1485	1673	1883	2083	2257	2396	2497	2542	2541	2542	2497	2396	2257	2083	1883	1673	1485	1367	1357
165	2844	2906	3086	3298	3505	3705	3876	4014	4102	4150	4158	4150	4102	4014	3876	3705	3505	3298	3086	2906	2844
175	1554	1589	1696	1823	1927	2026	2125	2168	2217	2242	2249	2242	2217	2168	2125	2026	1927	1823	1696	1589	1554
180	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638	638

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